

Characterization of superoxide dismutase (SOD) activity and neuroprotection against NMDA excitotoxicity for the e,e,e series of C₆₀ malonic acid and acetic acid derivatives

Explanation of terms:

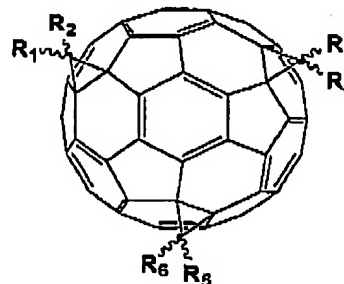
"Hexa" = C₃ (C₆₀(C(COOH)₂)₃ where the malonic acid groups are all at the e,e,e positions (1)

"Penta's" = (C₆₀(C(COOH)₂)₂(C(CHCOOH))) where the groups are at the e,e,e positions. There are two stereoisomers (2)

"Tetra's" = (C₆₀(C(COOH)₂)(C(CHCOOH))₂ where all groups are in the e,e,e positions. There are four stereoisomers (3)

"C₃-lite" = (C₆₀(C(CHCOOH))₃ where all groups are in the e,e,e positions. There are 4 isomers.

1. R₁=R₂=R₃=R₄=R₅=R₆=COOH (C₃)
2. R₁=H, R₂=R₃=R₄=R₅=R₆=COOH (Penta Pair)
3. R₁=R₃=H, R₂=R₄=R₅=R₆=COOH (Tetra Quartet)
4. R₁=R₃=R₅=H, R₂=R₄=R₆=COOH (C₃-lite)
5. R₁=R₂=COOBu, R₃=R₄=R₅=R₆=COOMe
6. R₁=R₂=R₃=R₄=COOBu, R₅=R₆=COOMe
7. R₁=R₂=COOH, R₃=R₄=R₅=R₆=COOMe
8. R₁=R₂=R₃=R₄=COOH, R₅=R₆=COOMe
9. R₁=H, R₂=COOH, R₃=R₄=R₅=R₆=COOMe
10. R₁=R₃=H, R₂=R₄=COOH, R₅=R₆=COOMe



EXHIBIT

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